

Abstract of the Disclosure

A method of making a printing plate from a heat-sensitive PS plate of a positive-working mode for lithographic printing includes the steps of exposing the heat-sensitive PS plate to light and developing the PS plate 5 using an alkaline developing solution containing at least one surfactant selected from the group consisting of anionic surfactants and amphotolytic surfactants, and a salt selected from the group consisting of alkali metal salts and ammonium cation salts. The PS plate has a substrate and an image forming layer formed thereon, the image forming layer including a 10 lower layer which is formed on the substrate and contains a water-insoluble and alkali-soluble resin and an upper heat-sensitive layer which is overlaid on the lower layer and contains a water-insoluble and alkali-soluble resin and an infrared absorption dye and exhibits an elevated solubility with respect to alkaline aqueous solutions when heated.